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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Tzong-Wei Uen

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11/27/2006

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EXAMINER

BECKER, SHASHI KAMALA

ART UNIT

PAPER NUMBER

2179

DATE MAILED: 11/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/633,994

Applicant(s)

UEN ET AL.

Examiner

Shashi K. Becker

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 October 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date. _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3, 5, 6, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Challa et al (hereinafter Challa), US Patent 6396481.

- In regards to claim 1, Challa teaches a digital notebook, comprising: an outer covering (Figure 1); a paper, said paper is connected on said outer covering by a fastening means (Figure 2, and abstract); a handwriting of pictures and literary handling system with a electromagnetic induction sub-circuit and an application specific integrated circuit (abstract), wherein said handwriting of pictures and literary handling system is located in said outer covering, and said electromagnetic induction sub-circuit is used for detecting the handwriting of pictures and literary written on said paper to generate a first signal, wherein said application specific integrated circuit is electrically coupled with said electromagnetic induction sub-circuit to receive said first signal to generate a second signal with digital data of the handwriting of pictures and literary; and a handwriting of pictures and literary inputting system, wherein said handwriting of pictures and literary inputting system is used for writing the handwriting of

pictures and literary on said paper and perform the interaction of electromagnetic induction to generate said first signal on writing (column 2 lines 48-60).

- In regards to claim 2, Challa teaches, wherein said handwriting of pictures and literary handling system comprising a transmission sub-circuit, wherein said transmission sub-circuit is electrically coupled with said application specific integrated circuit to communicate said second signal (column 7 lines 14-21).
- In regards to claim 3, Challa teaches, wherein said handwriting of pictures and literary handling system comprising a storage sub-circuit, wherein said storage sub-circuit is electrically coupled with said application specific integrated circuit to access said second signal within said storage unit (column 7 lines 59-65).
- In regards to claim 5, Challa teaches, wherein said handwriting of pictures and literary handling system comprising a power sub-circuit to supply the power to said digital notebook (column 7 lines 11-13).
- In regards to claim 6, Challa teaches, wherein said handwriting of pictures and literary handling system comprising a wireless network communication sub-circuit, wherein said wireless network communication sub-circuit is electrically coupled with said application specific integrated circuit to control the wireless network communication, and said wireless network communication sub-circuit is also electrically coupled with said transmission sub-circuit to perform the wireless communication with the external communication system (column 3 lines 50-63).

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- In regards to claim 8, Challa teaches, wherein said handwriting of pictures and literary inputting system comprising a electric current generating sub-circuit to supply the power to handwriting of pictures and literary inputting system by the interaction of electromagnetic induction (column 7 lines 11-13).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 4, 10-13, 15-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Challa in view of Kamijo et al (hereinafter Kamijo), US Patent 6538880.

- In regards to claim 4, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). However, Challa does not specifically teach, wherein said

handwriting of pictures and literary handling system comprising a sound recording sub-circuit, wherein said sound recording sub-circuit is electrically coupled with said application specific integrated circuit to receive a sound signal, and said sound signal is transformed into a third signal with digital signal of said sound signal.

Kamijo teaches a complementary functional PDA system and apparatus. Kamijo further teaches wherein said handwriting of pictures and literary handling system comprising a sound recording sub-circuit, wherein said sound recording sub-circuit is electrically coupled with said application specific integrated circuit to receive a sound signal, and said sound signal is transformed into a third signal with digital signal of said sound signal (column 3 lines 8-15). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Challa to include being able to receive a sound signal in order to record sound for input purposes. One would have been motivated to make such a combination in order for voice input.

- In regards to claim10, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). However, Challa does not specifically teach a sound recording sub-circuit, wherein said sound recording sub-circuit is electrically coupled with said application specific integrated circuit to receive a sound signal, and said sound signal is transformed into a third signal with digital signal of said sound signal.

Kamijo teaches a complementary functional PDA system and apparatus. Kamijo further teaches wherein said handwriting of pictures and literary handling system comprising a sound recording sub-circuit, wherein said sound recording sub-circuit is electrically coupled with said application specific integrated circuit to receive a sound signal, and said sound signal is transformed into a third signal with digital signal of said sound signal (column 3 lines 8-15). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Challa to include being able to receive a sound signal in order to record sound for input purposes. One would have been motivated to make such a combination in order for voice input.

- In regards to claims 11 and 17, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). Challa further teaches wherein said handwriting of pictures and literary handling system comprising a power sub-circuit to supply the power to said digital notebook (column 7 lines 11-13).
- In regards to claim 12, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). Challa further teaches wherein said handwriting of pictures and literary handling system comprising a wireless network communication sub-circuit, wherein said wireless network communication sub-circuit is electrically coupled with said application specific integrated circuit to control the wireless network communication, and said wireless network communication sub-circuit is also electrically coupled with said transmission sub-

circuit to perform the wireless communication with the external communication system (column 3 lines 50-63).

- In regards to claims 13 and 18, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). Challa further teaches, wherein said handwriting of pictures and literary inputting system, comprising: a writing means, said writing means is used for writing the handwriting of pictures and literary on said paper; and a signaling means, said signaling means is used for performing the interaction of electromagnetic induction to generate said first signal on writing (abstract).
- In regards to claims 15 and 20, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). Challa further teaches wherein said handwriting of pictures and literary inputting system comprising a electric current generating sub-circuit to supply the power to handwriting of pictures and literary inputting system by the interaction of electromagnetic induction (column 7 lines 11-13).
- In regards to claim 16, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). Challa further teaches an outer covering, wherein said outer covering comprises a first covering means and a second covering means, and said first covering means and said second covering means are connected by a fastening means, wherein said first covering means comprises a first area and a second area, and said fastening means and second covering means comprises a third area and a fourth area separately (Figure 1). However, Challa does not specifically teach a sound recording sub-circuit, wherein said sound recording

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sub-circuit is electrically coupled with said application specific integrated circuit to receive a sound signal, and said sound signal is transformed into a third signal with digital signal of said sound signal.

Kamijo teaches a complementary functional PDA system and apparatus. Kamijo further teaches wherein said handwriting of pictures and literary handling system comprising a sound recording sub-circuit, wherein said sound recording sub-circuit is electrically coupled with said application specific integrated circuit to receive a sound signal, and said sound signal is transformed into a third signal with digital signal of said sound signal (column 3 lines 8-15). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Challa to include being able to receive a sound signal in order to record sound for input purposes. One would have been motivated to make such a combination in order for voice input.

6. Claims 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Challa in view of Poon et al (hereinafter Poon), US Patent 5687254.

- In regards to claim 7, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). However, Challa does not specifically teach, wherein said handwriting of pictures and literary inputting system comprising a line, wherein said line is electrically coupled with said handwriting of pictures and literary handling system to supply the power to handwriting of pictures and literary inputting system.

Poon teaches a searching and matching unrecognized handwriting method and system. Poon further teaches wherein said handwriting of pictures and literary inputting system comprising a line, wherein said line is electrically coupled with said handwriting of pictures and literary handling system to supply the power to handwriting of pictures and literary inputting system (column 10 lines 33-40). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Challa to include a line wire between the literary handling system in order to supply power. One would have been motivated to make such a combination in order to supply power to handwriting of pictures and literary inputting system.

- In regards to claim 9, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). However, Challa does not specifically teach, wherein said handwriting of pictures and literary handling system comprising an application program to make an electric signature.

Poon teaches a searching and matching unrecognized handwriting method and system. Poon further teaches wherein said handwriting of pictures and literary handling system comprising an application program to make an electric signature (column 3 lines 6-38). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Challa to include a program to make an electric signature in order to capture the user's signature. One would have been motivated to make such a combination in order to make an electric signature for any business and/or personal reasons.

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7. Claims 14 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Challa and Kamijo as applied to claims 1-6, 8, 10-13, 15-18 and 20 above, and further in view of Poon.

- In regards to claims 14 and 19, Challa teaches the above limitations (see claims 1-3, 5, 6, and 8, *supra*). However, Challa does not specifically teach, wherein said handwriting of pictures and literary inputting system comprising a line, wherein said line is electrically coupled with said handwriting of pictures and literary handling system to supply the power to handwriting of pictures and literary inputting system.

Poon teaches a searching and matching unrecognized handwriting method and system. Poon further teaches wherein said handwriting of pictures and literary inputting system comprising a line, wherein said line is electrically coupled with said handwriting of pictures and literary handling system to supply the power to handwriting of pictures and literary inputting system (column 10 lines 33-40). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Challa to include a line wire between the literary handling system in order to supply power. One would have been motivated to make such a combination in order to supply power to handwriting of pictures and literary inputting system.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shashi K. Becker whose telephone number is 571-272-8919. The examiner can normally be reached on Mon-Fri 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SKB

BA HUYNH
PRIMARY EXAMINER